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**Inventor: IMHOF et al.  
Appl. No. 09/524,531  
Docket No. 11422/264679**

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APPROVED BY	O.G. FIG. CLASS	SUBCLASS
		DRAFTSMAN

J. E. JIG, I.A.



**Inventor: IMHOF et al.**  
**Appl. No. 09/524,531**  
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## FIG. 1B

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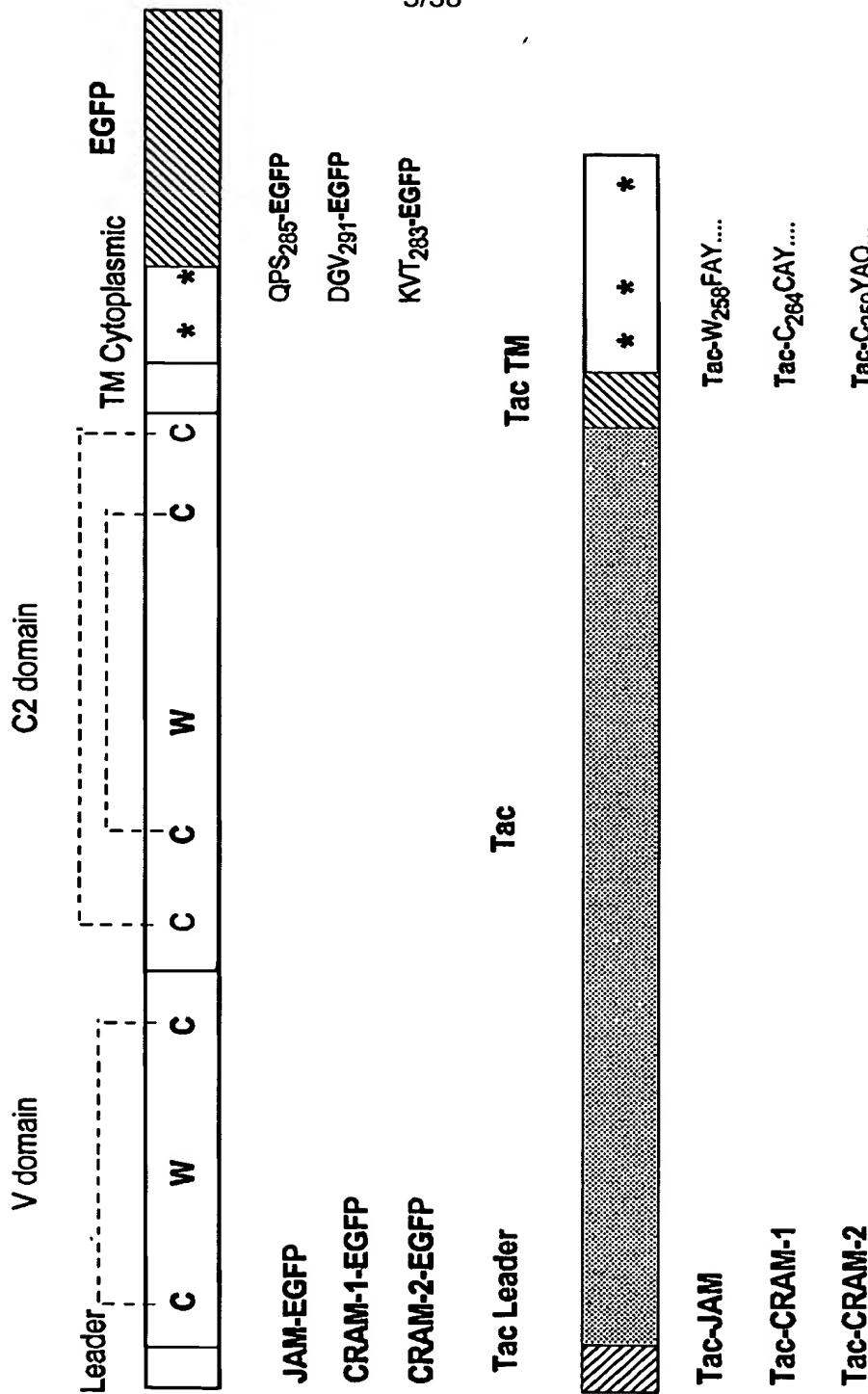


FIG. 2A



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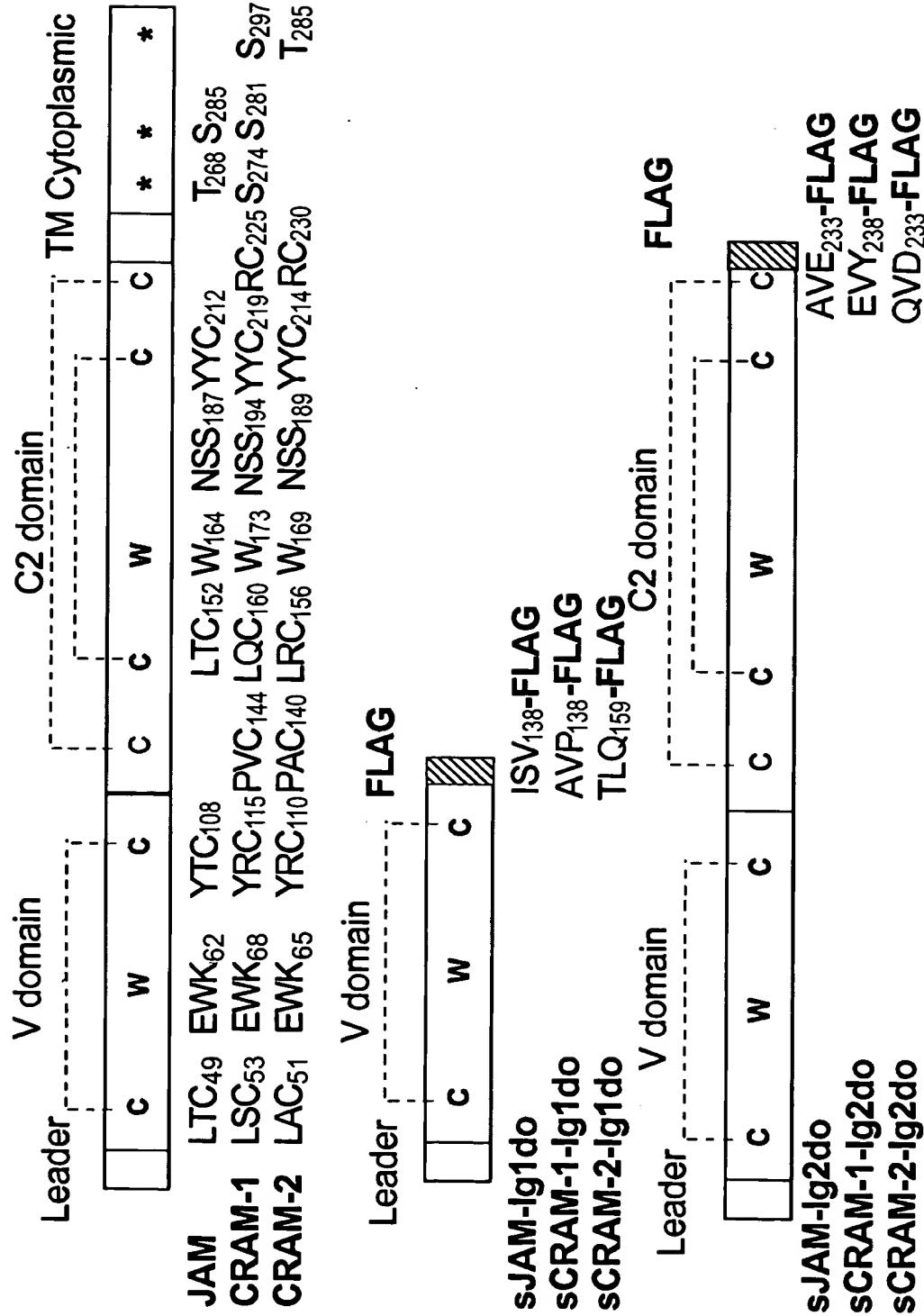


FIG. 2B

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**MALSRRIRLR LYARLPHFFL LILFRGCMIE AVNLKSSNRM PVVHEFESVE  
MARSPOGL LMLLLHYL VALDYHKANG FSASKDHROE VTVIEFQEAI**

**LSCIITHSQ TDSPRIEWKKI QDGQTTYVVF DNKIQGDLAG RTDVFGKTS  
LACK-TPKKT TSSRLEWKVV GQG-VSLVYY QQALQGDFKID RAEMID-FNI**

**RIWNVTRSDS AYRCEVVAL NDR-KEVDEI TIELIIVQVKP VTPVCRIPAA  
RIKNVTRSDA GEYRCEVSAP TEQGQNLQED KVMLEVLVAP AVPACEVPTS**

**VPVGKTATLQ CQESEGYPRP HYSWYRNDVP LPT-DSRANP RFQNSSSFHVN  
VMTGSVVELR CQDKEGNPAP EYIWFKDGTS LLG-NPKGTT H-NNSSY'TNE**

**SETGTLVFNA VHKDDSGQYY CIASNDAAGAA RCEGQDMEVY DLNIAGITGG  
HESGILQFNM ISKMDSGEYY CEARNSVGHR RCPGKRMQVD VLNISGIIAT**

**VLVVLIVLAV ITMGICCAVR RGCPFISSKQD GESYKSPGKH DGVNNTIRTSE  
VVVAFVISV CGLGTCYAQR KGYF--SKET SFQKGSPASK ---- VTTMG**

**EGDFRHKSFF VI  
ENDFRHTKSF II**

**FIG. 3**







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**FIG. 4C Murine and human JAM-2 (CRAM-1)**

210

Y	C	H	I	L	V	T	N	A	V	H	K	D	D	S	G	Q	Y	Y	C	T	A	S	N	D	A
I	G	A	R	C	E	Q	D	M	E	V	Y	D	E	N	T	A	G	I	I	G	G	V	L		
S	A	R	C	E	Q	E	M	E	N	Y	D	E	N	L	G	I	I	G	G	V	L				

T G T L V F . A V H K D D S G O Y Y C I A S N D A

220

230

G	A	A	R	C	E	G	Q	D	M	E	V	Y	D	E	N	T	A	G	I	I	G	G	V	L
G	S	A	R	C	E	Q	E	M	E	N	Y	D	E	N	L	G	I	I	G	G	V	L		
G	. A	R	C	E	O	Q	Y	E	V	Y	D	L	N	I	G	I	I	G	G	G	V	L		

240

260

W	V	E	I	V	L	A	V	I	T	M	G	T	C	C	A	Y	R	R	G	C	F	I	S	S
W	V	I	A	V	L	A	V	I	T	L	G	I	C	C	A	Y	R	R	G	Y	F	I	N	N
V	V	L	V	V	L	A	V	I	T	. I	G	I	C	C	A	Y	R	R	G	F	I			

270

290

W	V	E	I	V	L	A	V	I	T	M	G	T	C	C	A	Y	R	R	G	C	F	I	S	S
W	V	I	A	V	L	A	V	I	T	L	G	I	C	C	A	Y	R	R	G	Y	F	I	N	N
V	V	L	V	V	L	A	V	I	T	. I	G	I	C	C	A	Y	R	R	G	F	I			

300

320

K	Q	D	G	E	S	Y	K	S	P	G	K	H	D	G	V	N	Y	I	R	T	S	E	E	G
K	Q	D	G	E	S	Y	K	N	P	G	K	P	D	G	V	N	Y	I	R	T	D	E	E	G
K	Q	D	G	E	S	Y	K	P	G	K	P	D	G	V	N	Y	I	R	T	E	E	G		

*moJAM-2 (CR1)*  
*huJAM-2 (CR1)*

*moJAM-2 (CR1)*  
*huJAM-2 (CR1)*

*moJAM-2 (CR1)*  
*huJAM-2 (CR1)*



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## FIG. 4D Murine and human JAM-2 (CRAM-1)

310



*moJAM-2 (CR1)*  
*huJAM-2 (CR1)*

320

350

340

330

360

370

380

390

400

*moJAM-2 (CR1)*  
*huJAM-2 (CR1)*

390

380

400

# FIG. 5A

## Murine and human CRAM-2 (JAM-3)

10

*huJAM-3(CRAM-2)*  
*moJAM-3(CRAM-2)*

20

30

40

50

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*huJAM-3(CRAM-2)*  
*moJAM-3(CRAM-2)*

*moJAM-3(CRAM-2)* C K T P K T T S S R L E W K K V G Q G V S L V Y

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60

70

80

*huJAM-3(CRAM-2)*  
*moJAM-3(CRAM-2)* Y Q Q A L Q G D F K D

90

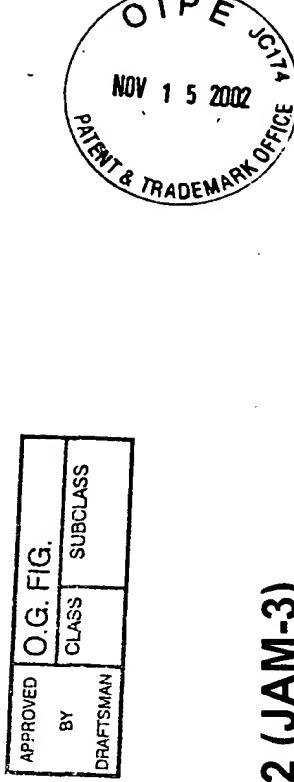
100

*huJAM-3(CRAM-2)*  
*moJAM-3(CRAM-2)* R A E M I D F N I R I K N V  
R A E M I D F N I R I K N V  
R A E M I D F N I R I K N V

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**FIG. 5B** Murine and human CRAM-2 (JAM-3)

130      140      150

<i>huJAM-3(CRAM-2)</i>	T	T	S
<i>moJAM-3(CRAM-2)</i>	K	M	V
	V	V	V
	L	E	L
	E	V	E
	V	V	V
	A	A	A
	P	P	P
	A	A	A
	V	V	V
	A	A	A
	P	P	P
	S	S	S
	C	C	C
	E	E	E
	V	V	V
	P	P	P
	S	S	S
	T	T	T
	G	G	G
	S	S	S
	A	A	A
	L	S	L
	M	M	M
	T	T	T
	G	G	G

160      170      171      172  
*huJAM-3(CRAM-2)*      *moJAM-3(CRAM-2)*  
V V E L R C Q D K E G N P A P E Y  
V V E L R C Q D K E G N P A P E Y  
V V E L R C Q D K E G N P A P E Y  
V V E L R C Q D K E G N P A P E Y  
W F K D G      W F K D G      W F K D G      W F K D G

200  
190  
180  
170  
160  
150  
140  
130  
120  
110  
100  
90  
80  
70  
60  
50  
40  
30  
20  
10  
0

*hJAM-3(CRAM-2)*  
*moJAM-3(CRAM-2)*

APPROVED BY DRAFTSMAN	O. G. FIG.	CLASS SUBCLASS





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>Nucleic acid sequence huCRAM-1/ huJAM-2  
ATGGCGCTGAGGCCACCGCGACTCCGGCTCTGCCTCGGC  
TGCCTGACTCTTCTGCTGCTGCTTTCAAGGGCTGCCTGAT  
AGGGGCTGTAATCTCAAATCCAGCAATCGAACCCAGTGGTA  
CAGGAATTGAAAGTGTGGAACTGTCTGCATCATTACGGATT  
CGCAGACAAAGTGACCCAGGATCGAGTGGAAAGAAAATTCAAGA  
TGAACAAACACATATGTGTTTGACAACAAAATTCAAGGGA  
GACTTGGCGGGTCTGAGAAATACTGGGAAAGACATCCCTGA  
AGATCTGGAATGTGACACGGAGAGACTCAGCCCTTATCGCTG  
TGAGGTCGTTGCTCGAAATGACCGCAAGGAAATTGATGAGATT  
GTGATCGAGTTAACTGTGCAAGTGAAGCCAGTGACCCCTGTCT  
GTAGAGTGCCGAAGGCTGTACCAAGTAGGCAAGATGGCAACACT  
GCACTGCCAGGAGAGTGAGGGCCACCCCCGGCCTCACTACAGC  
TGGTATCGCAATGATGTACCACTGCCACGGATTCCAGAGCCA  
ATCCCAGATTGCAATTCTTCTTCCACTTAAACTCTGAAAC  
AGGCACTTGGTGTTCAGTGTGTTCAAAGGACGACTCTGGG  
CAGTACTACTGCATTGCTTCAATGACGCAAGGCTCAGCCAGGT  
GTGAGGAGCAGGAGATGGAAGTCTATGACCTGAAACATTGGCGG  
AATTATTGGGGGGTTCTGGTTGTCTGCTGTACTGGCCCTG  
ATCACGTTGGGCATCTGCTGTGCATAACAGACGTGGCTACTTCA  
TCAACAATAAACAGGATGGAGAAAGTTACAAGAACCCAGGGAA  
ACCAGATGGAGTTAACTACATCCGCACTGACGAGGAGGGCGAC  
TTCAGACACAAGTCATCGTTGTGATCTGAGACCCGGGTGTGG  
CTGAGAGCGCACAGAGCCGACGTGCACATACCTCTGCTAGAA  
ACTCCTGTCAAGGCAGCGAGAGCTGATGCACTCGACAGAGCTA  
GACACTCTTCAAAGCTTCTGTTGGCAAGGTGACCACTACTC  
TTTACTCTACAAGCCCAGGAAAGAGAAATTCTCAAGAGG  
ACCCGGAAATATAACCCCAAGGAACCAAACGGTGCCTCAC  
TGAGGTGGGGTCCTTAATTGTTTGGCCTGATTCCCATGAA  
ATAAGGGGTCTTAAGAGTTGGTACGTAAAACCCCCGCTT  
GGGCCTGGAAACCACATGTTACCACCTGCGTAAAAAA  
AAAAAA

**FIG. 6A**



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>huCRAM-1/huJAM-2 complete

MALRRPPRLRLCARLPDFFLLLLFRGCLIGAVNLKSSNRTPVV  
QEFESVELSCIITDSQTSDPRIEWKKIQDEQTTYVFFDNKIQG  
DLAGRAEILGKTSLSKIWNVTRRDSALYRCEVVARNDRKEIDEI  
VIELTVQVKPVTPVCRVPKAVPGKMATLHCQESEGHPRPHYS  
WYRNDVPLPTDSRANPRFRNSSFHLNSETGTLVFTAVHKDDSG  
QYYCIASNDAGSARCEEQEMEVYDLNIGGIIGGVLVVLAVLAL  
ITLGICCCAYRRGYFINNKQDGESYKNPGKPDGVNYIRTDEEGD  
FRHKSSFVI

>huCRAM-2/huJAM-3 partial

RAEMIDFNIRIKNVTRSDAGKYRCEVSAPAEQGQNLEEDTVTL  
EVLVAPAVPSCEVPSSALSGTVVELRCQDKEGNPAPEYTWFKD  
GIRLLENPRILGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSC  
EARNSVGYRRCPGKRMQVDDLNISGIIAAVVVVALVISVCGLG  
VCYAQRKGYFSKETSFQKSNSSSKATTMSEDFKHTKSFII

***FIG. 6B***

APPROVED	O. G. FIG.
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# FIG. 7A

Y R C X A S1  
TAY AGN TGY NNN GCY TCY AA

Y R C X A S2  
TAY AGN TGY NNN GCY AGY AA

Y Q C X A S1  
TAY CRG TGY NNN GCY TCY AA

Y Q C X A S2  
TAY CRG TGY NNN GCY AGY AA

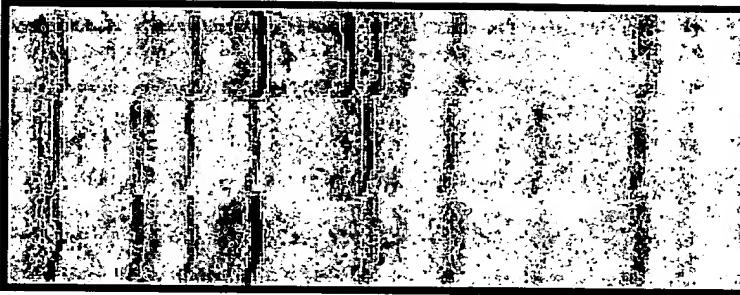
Y Y C X A S1  
TAY TAY TGY NNN GCY TCY AA

Y Y C X A S2  
TAY TAY TGY NNN GCY AGY AA

# FIG. 7B

t-end/B16  
t-end

B16  
t-end/B16



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gacattccctcgacatggcgctggccggcttcgacttgcactgtacgcggctg 60  
M A L S R R L R L Y A R L 15  
 cctcaacttccctgtgtttcaggggatggcatgtatggcaggatgtaaatctcaa 120  
P H F F L L L F R G C M I E A V N L K 35  
 tccaggcaaccggatggtaatgtggaaatgtggattttgcattcatcat 180  
S S N R N P V V H E F E S V E L S (C) I I 55  
 acgcaactcacagcaaggtagcccttaggatgtgaatggaaatccaaggatggccaaacc 240  
T H S Q T S D P R I E W K K I Q D G Q T 75  
 acatatgtgtattttgacaacaaggattcaaggaggacacctggcaggatgtttt 300  
T Y V Y F D N K I Q G D L A G R T D V F 95  
 ggaaaaactccctggggatctggaaatgtggacacgatcgattcagccatctatcgctgt 360  
G K T S L R I W N V T R S D S A I Y R (C) 115  
 gaggtcgttgtcttaatgaccggaaaaggatgtggattaccatgtggatattgtg 420  
E V V A L N D R K E V D E I T I E L I V 135  
 caagtgaaggccaggtagccctgttcggatccaggccgtgtacactgttagggaaagacg 480  
Q V K P V T P V C R I P A A V P V G K T 155

**FIG. 8A**



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gcaacactgcaggccaaaggaggcgaggcgctatccccggcctcaactacaggctggtaccgc 540  
A T L Q (C) Q E S E G Y P R P H Y S W Y R 175  
aatgatgtgccactgcctacaggattccaggccaaatcccgatccagaattccctctttc 600  
N D V P L P T D S R A N P R F Q N S S F 195  
catgtgaactcgaggacaggcactctgggtttcaatgtctgtccacaaggacgactctggg 660  
H V N S E T G T L V F N A V H K D D S G 215  
cagtaactgcattgcattccaaatgcggcagggtcaggccagggttggggcaggacatg 720  
Q Y Y (C) I A S N D A G A A R C E G Q D M 235  
gaagtctatgattgaacattgtctggattattggggagggtcccttattgtt 780  
E V Y D L N I A G I I G G V L V V L I V 255  
cttgctgtgattacgatggccatctgtgcgtacagacgaggctgtctcatcagcagt 840  
L A V I T M G I C C A Y R R G C F I S S 275  
aaacaagatggagaaaaggctataaggccaggcatgcgggttaactacatccgg 900  
K Q D G E S Y K S P G K H D G V N Y I R 295  
acgagtggagggtgacttcagacacacaaatcgttttatctgacaccctgtcggtc 960  
T S E E G D F R H K S S F V I \* 310

FIG. 8B



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FIG. 8C



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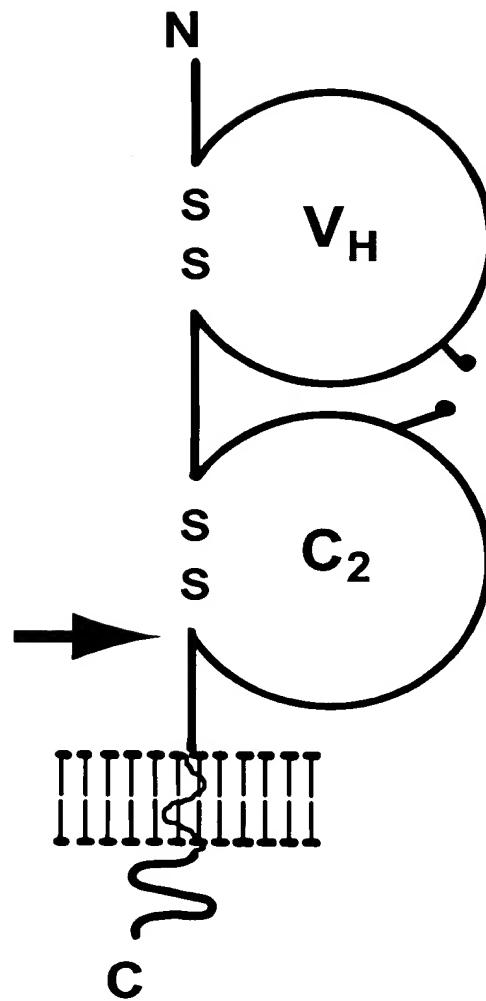
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*FIG. 8D*



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FIG. 9A

20

MAIS SRRLLR LLYARPLPHE ELLIE LFR  
MARSP MARSP GCLMILLH YALDY LVALY  
MAGRA MGRAGR KLLFILETSM ILG  
MAGRA MGRAGR KLLFILETSM ILG

CRAM - 1      CRAM - 2      JAM      Consensus

40

CRAM - 1      CRAM - 2      JAM      Consensus

GCMI EAVN EKS SNR N PVV HEF ESE V E  
HKANG F SASK DHROEV T VIE FQE A I  
SLVQ GGSV Y N AQS D VQ V PEM E S K  
q k

8

\*

CRAM-1      CRAM-2      JAM      Consensus



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**FIG. 9B**

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CRAM - 1	120	RIWNVTRSDSAIYRCEVVALNDR - K	RIKNVTRSDAGEYRCEVSAPTEQGQ	TFSSVTRKDNGEYTCMVS -- EEGQO	ri nVTRSD qeyrcevsaa
CRAM - 2	140	EVDDEITI	ELIVVKPVT	PVCRIPAA	
JAM		EQEDKVM	VAPAVPAC	VPS	
Consensus		NYGEVSI	PPSKPTISVP	SS	
		HLTVL	VPP	P	
		VIL	VIL	C	
		L	P	P	
CRAM - 1	160	VPMGKTA	TLQOCQES	GYPRPHYSWY	
CRAM - 2		MTGSVVE	LCODKE	PAPEYIWF	
JAM		V	G	SEY	
Consensus		GNRAVLT	HDGSP	PEYSW	
		C	G	pey	
		L	G	sw	
CRAM - 1	180	RNDPLPT	-DSRANPREFQNS	SHVN	198
CRAM - 2		KGTSLIG	QNSSE	SYTNE	193
JAM		KDGESMLT	NPKGTH	SETED	191
Consensus		DAKKTRA	NNSSSET	E	
CRAM - 1	200	RNDPLPT	-DSRANPREFQNS	SHVN	
CRAM - 2		KGTSLIG	QNSSE	SYTNE	
JAM		KDGESMLT	NPKGTH	SETED	
Consensus		DAKKTRA	NNSSSET	E	



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**FIG. 9C**

220\*

SETGTIVFNAVHKDDSGQYYCIIASN  
 HESCGILQFNMIKGMDSGEYYCIEARN  
 PKSGDLYFDFTAFDSGEYYCQAOQN  
 esGLF

240

\*

DAGAA-RCEGQDMEVYDLDNIAGIIG  
 SVGHR-RCPGKRMQVVDVLLNISGIIA  
 GYGTAMRSEAAHMDAVENTNVGGIVAN  
 G a Rice M V LN GI a

260

GVLVVLLIVLAVETMIGTCAYRRGCF  
 TVVVVAFVI SVCGLGTCAORKGYF  
 AVLVTLLGLI FIGWMFAYSRGYF  
 V1Vv1iv1 V G C

280 300

CRAM-1 ::  
 CRAM-2 ::  
 JAM ::  
 Consensus ::

CRAM-1 ::  
 CRAM-2 ::  
 JAM ::  
 Consensus ::

ISSKQDGESYKSPGKHDGVNYRTS :: 297  
 --SKETSFQKGSPASK- - - -VTTM :: 285  
 --ETTJKGTAPGKKVIYSQPSSTR :: 287  
 sk t



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FIG. 9D

CRAM - 1  
CRAM - 2  
JAM  
CONSENSUS

EGD	FRHK	SSF	V	I
GEN	FRHT	K	SF	I
				V



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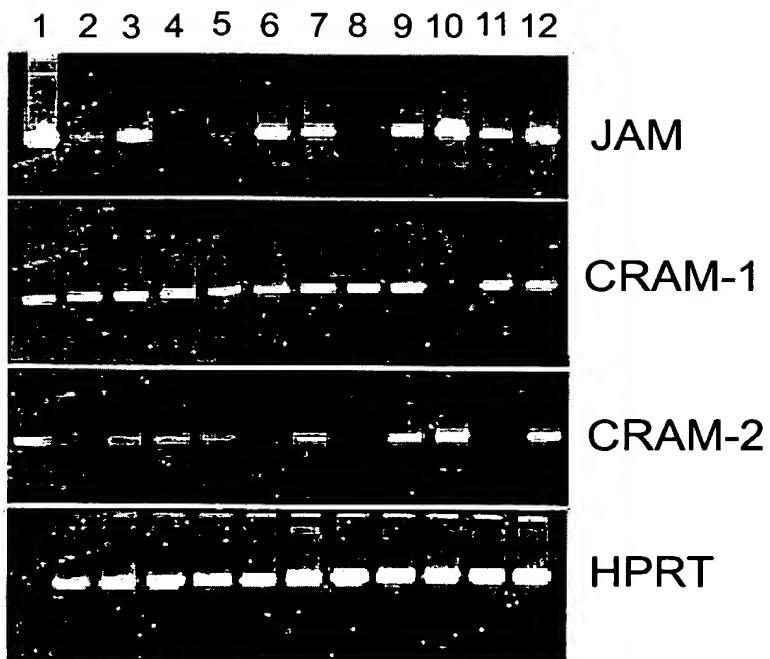
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***FIG. 10A***

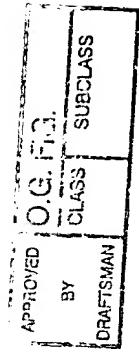


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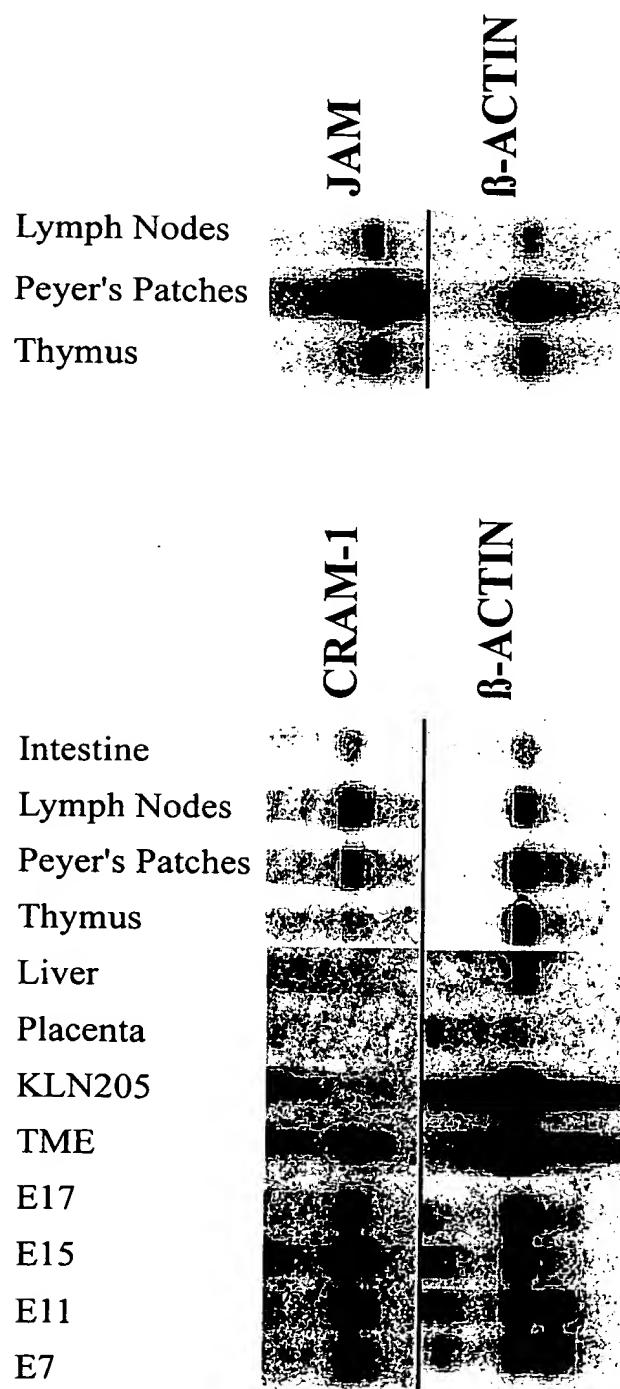
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## FIG. 10B



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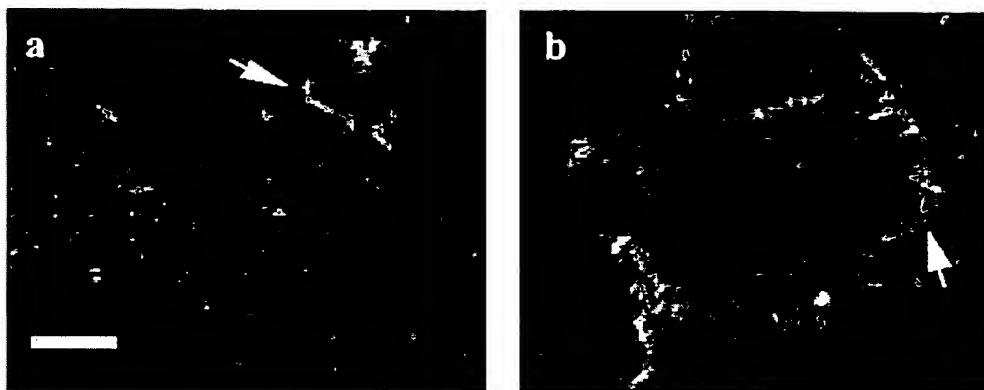
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Docket No. 11422/264679



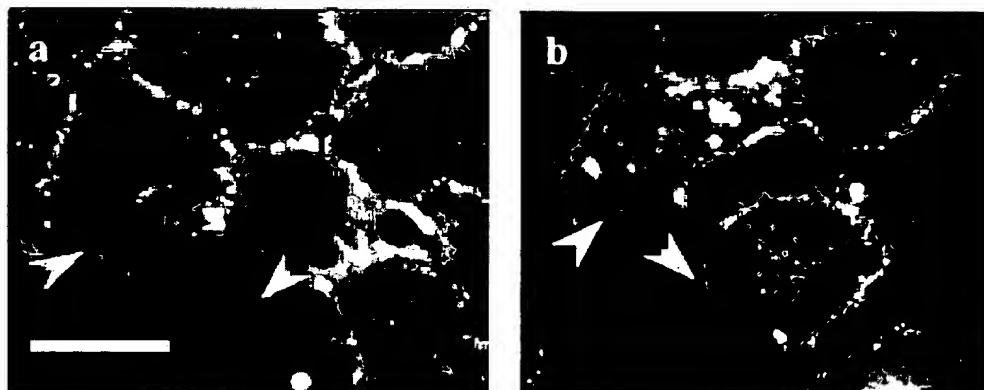
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APPROVED	O.G. FIG.
BY	CLASS
CRAFTSMAN	SUBCLASS

**FIG. 11A**



**FIG. 11B**



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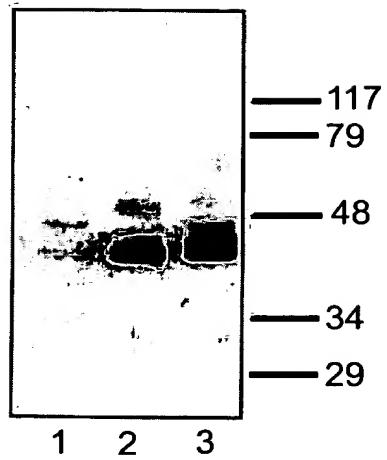
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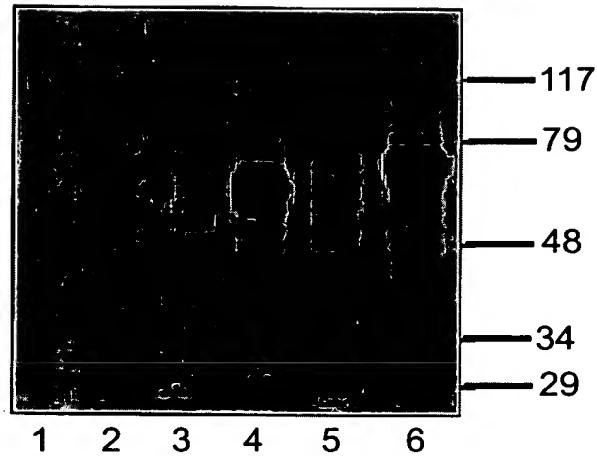
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APPROVED	O.G. FIG.	SUBCLASS
BY	CLASS	
DRAFTSMAN		



**FIG. 11C**



**FIG. 11D**



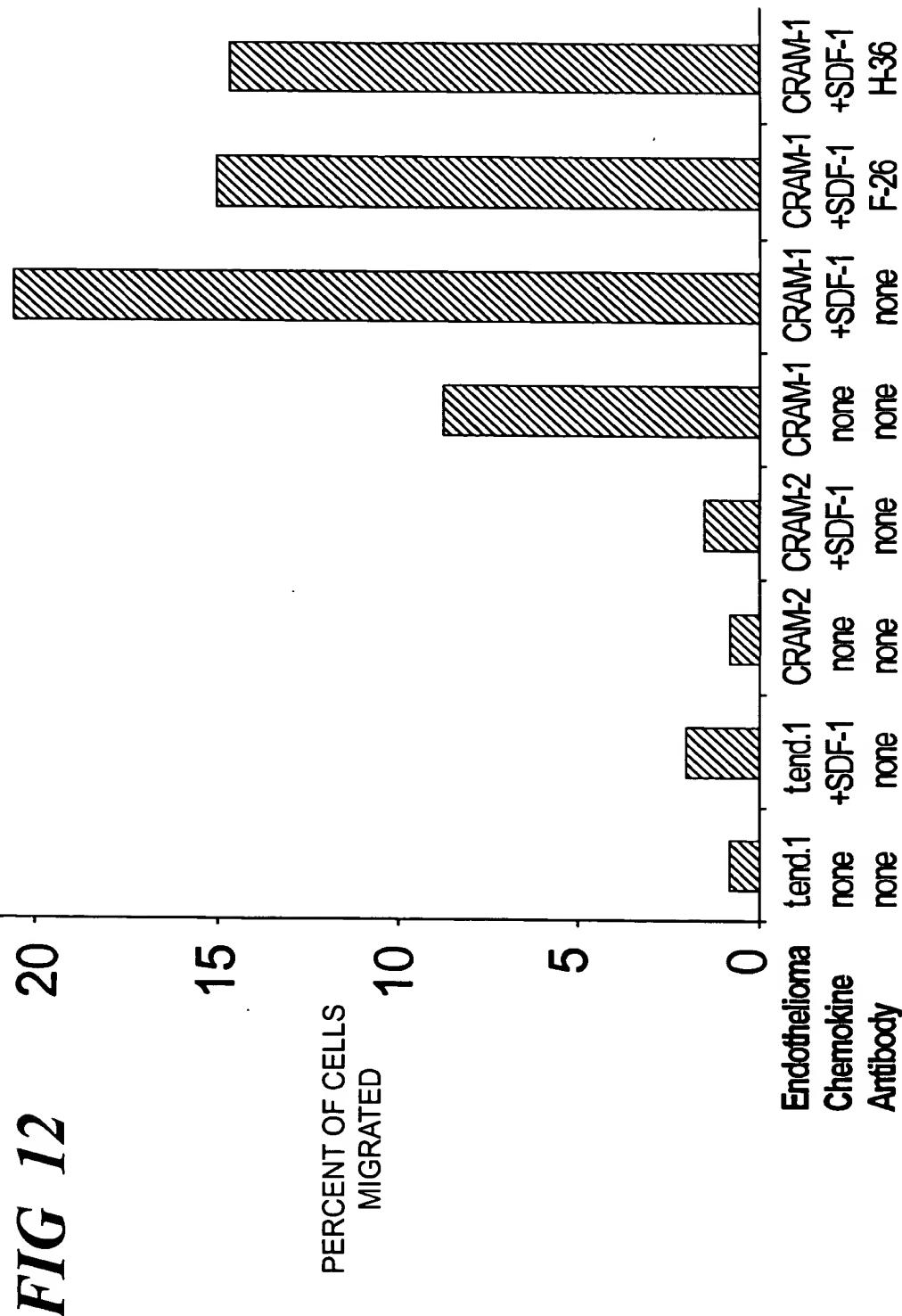
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APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

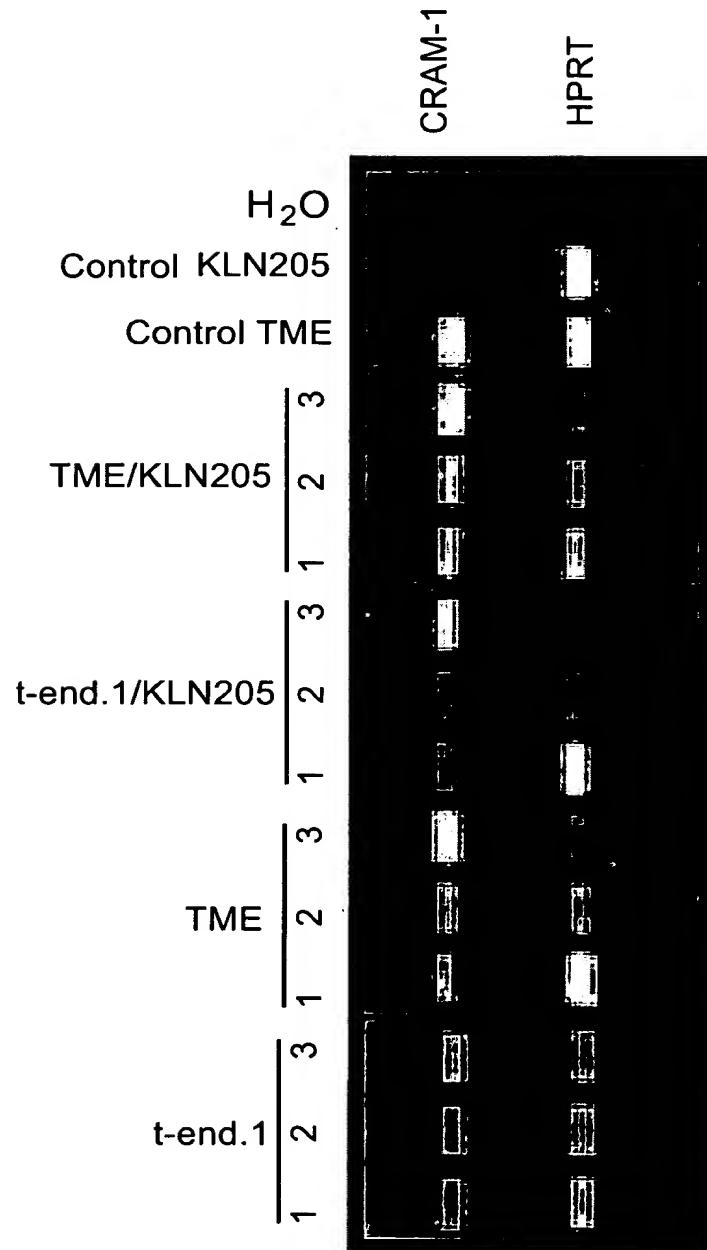


FIG. 13



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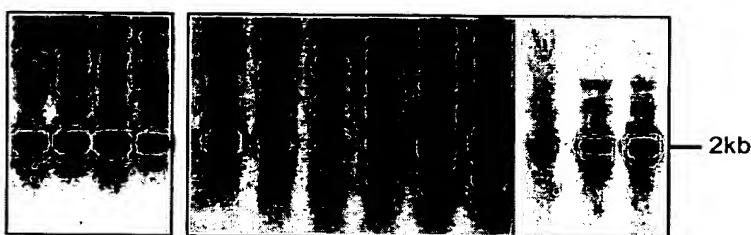
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APPROVED	O.G. FIG.	CLASS	SUBCLASS
BY			
DRAFTSMAN			

## FIG. 14

a



b



c

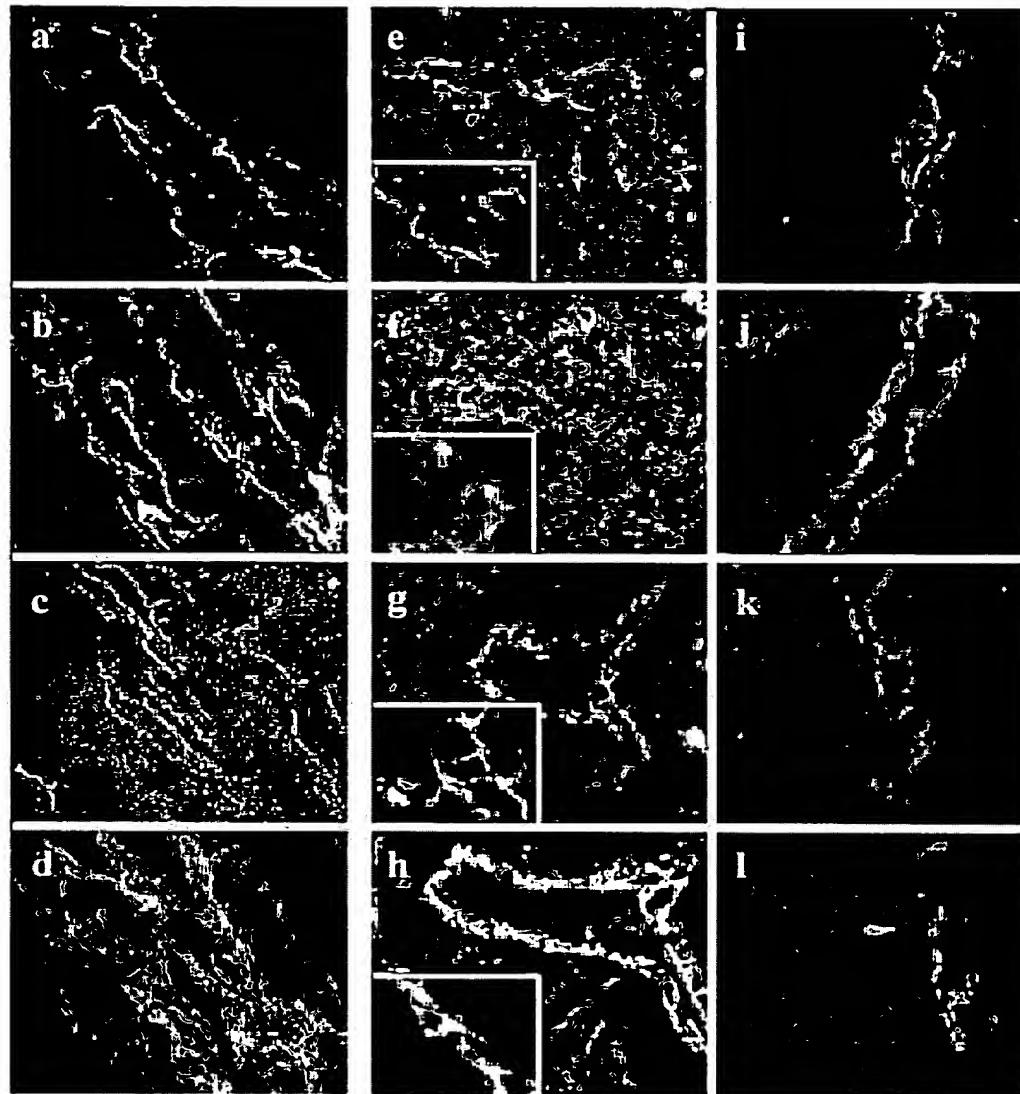


Day 7 pc  
Day 11 pc  
Day 16 pc  
Day 17 pc

Heart  
Lung  
Liver  
Spleen  
Kidney  
Testis  
Thymus  
Peyer's patches  
Lymph node



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***FIG. 15***

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

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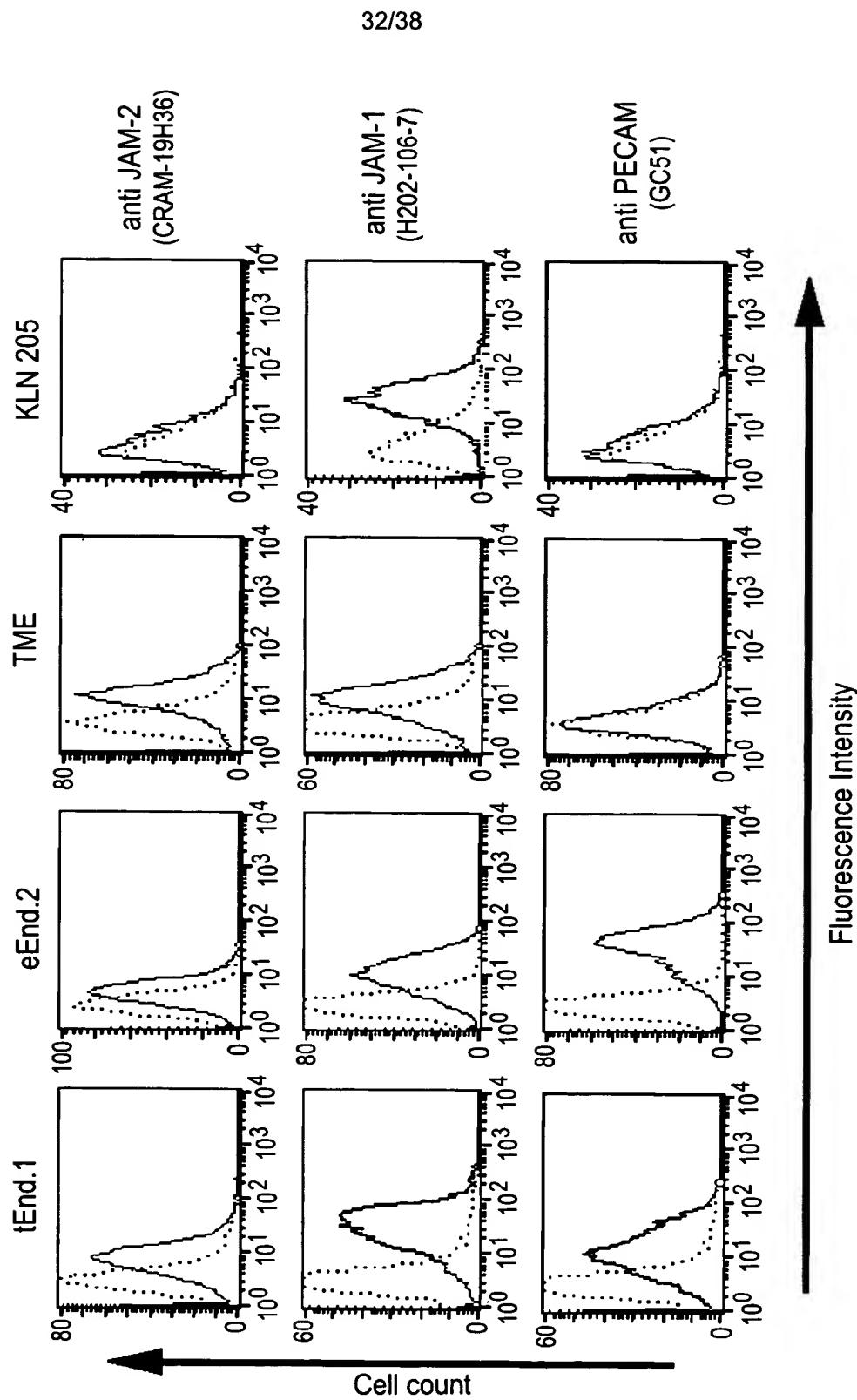
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BY	CLASS
DRAFTSMAN	SUBCLASS

**FIG. 16A**



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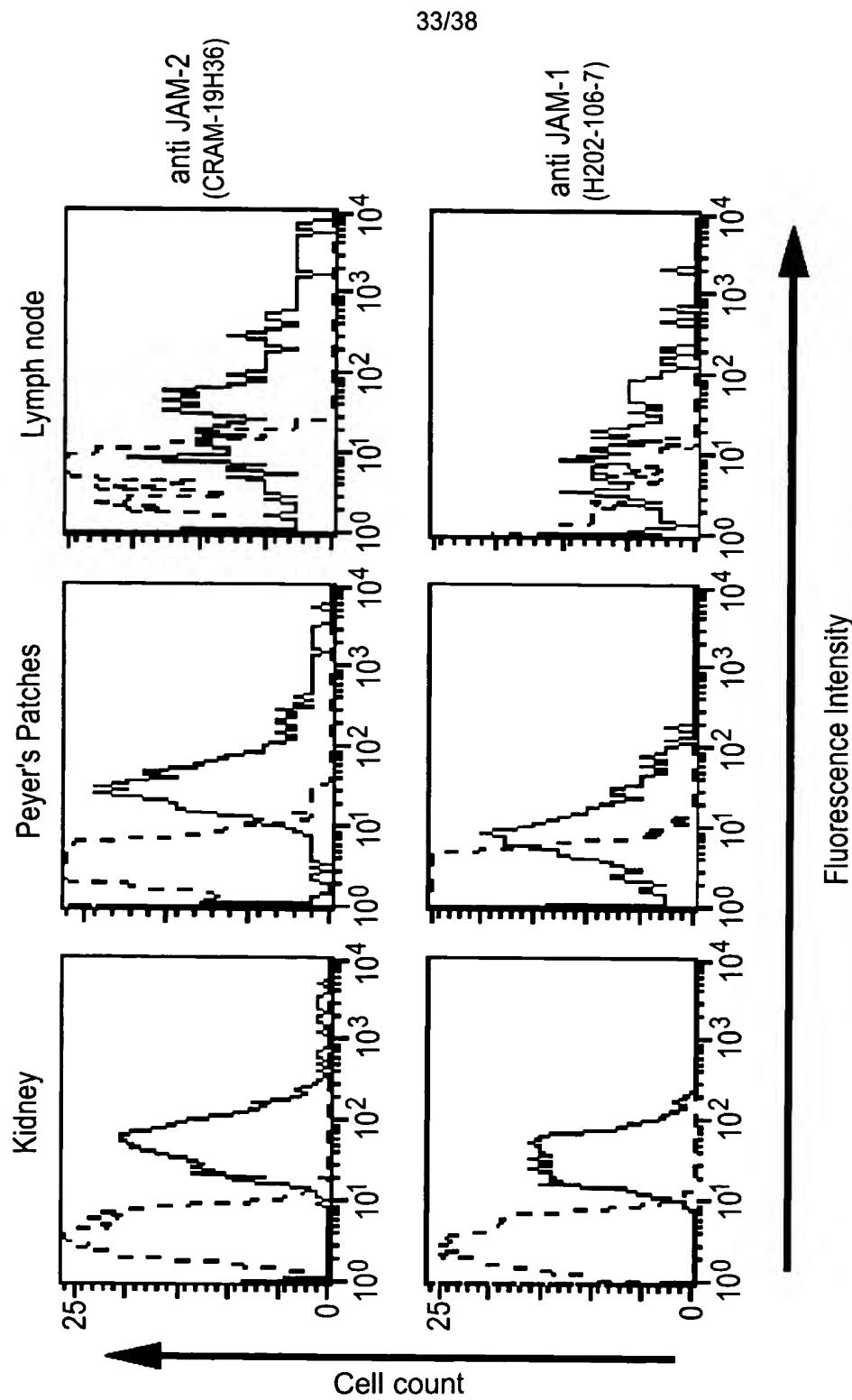
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APPROVED	O. G. FIG.
BY	CLASS
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FIG. 16B





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APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

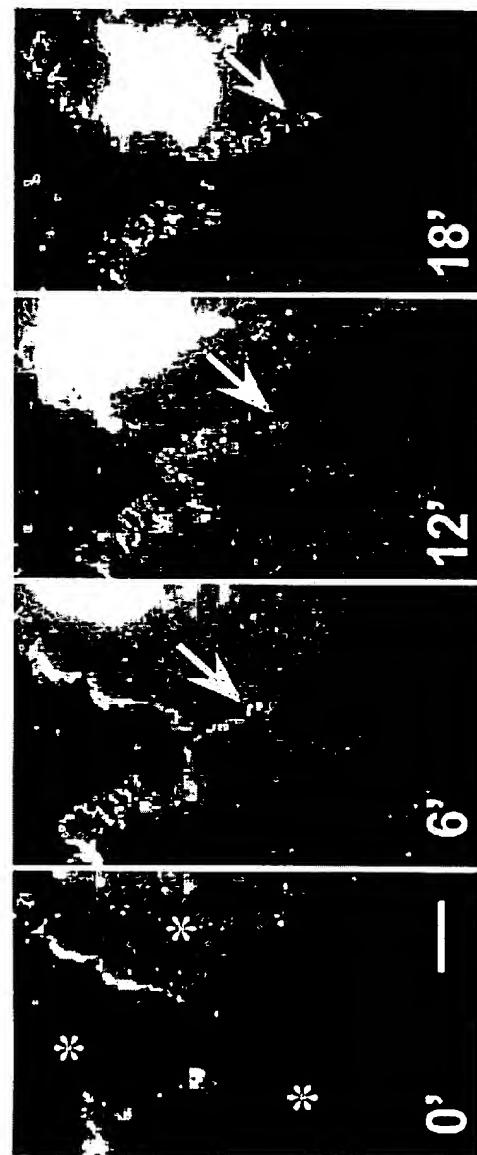


FIG. 17A

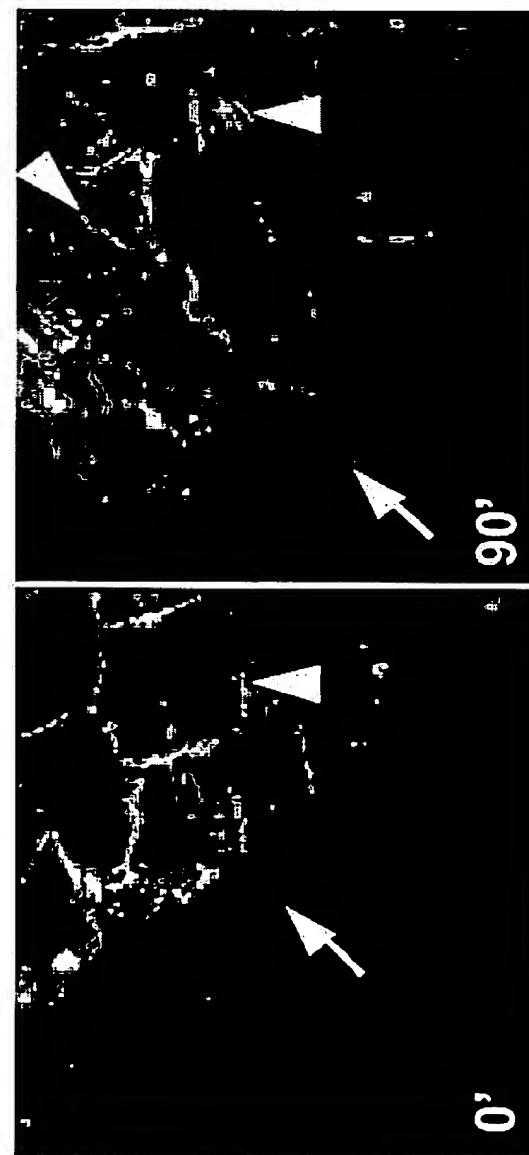


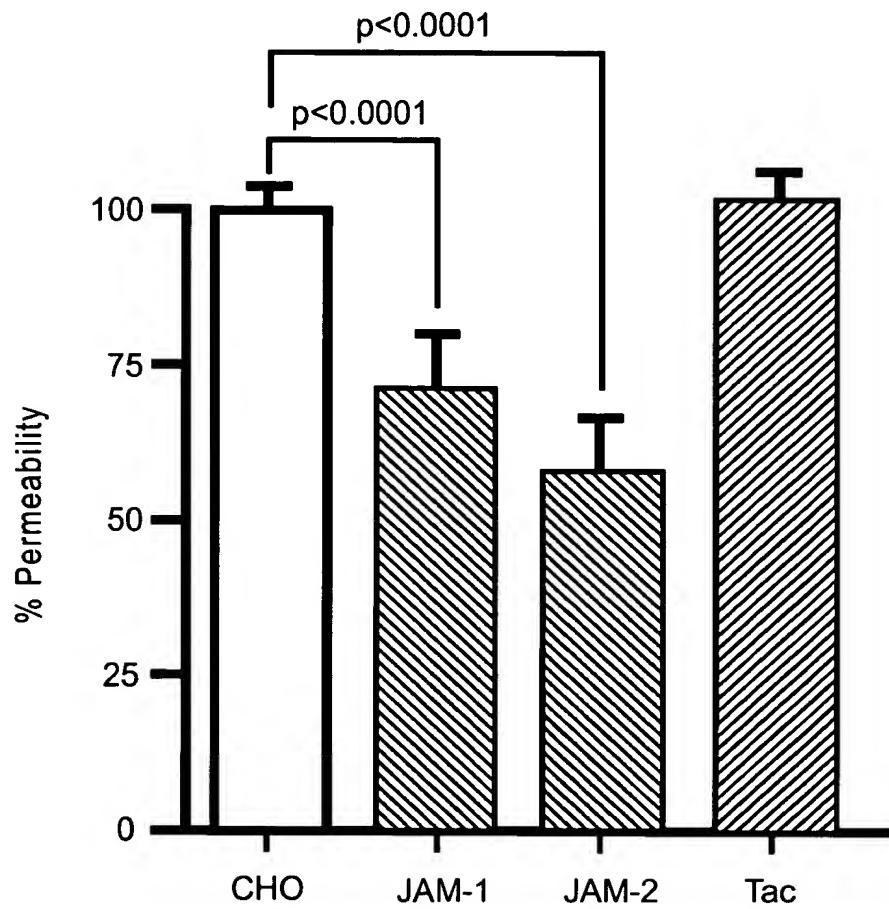
FIG. 17B

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**FIG. 18**

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APPROVED	O.G. F.G.
BY	CLASS
CRAFTSMAN	SUBCLASS

Apical →  
Basal

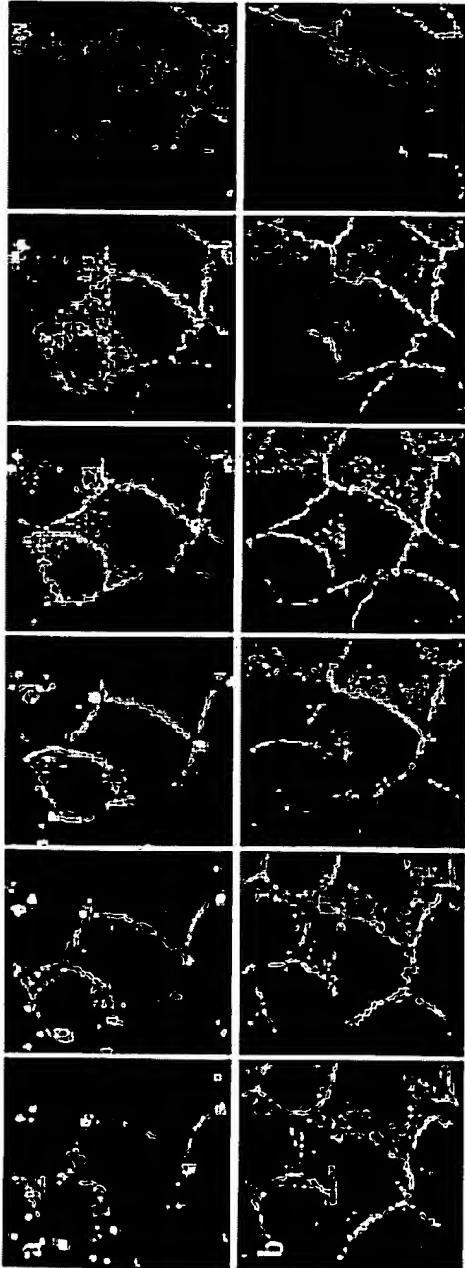


FIG. 19A

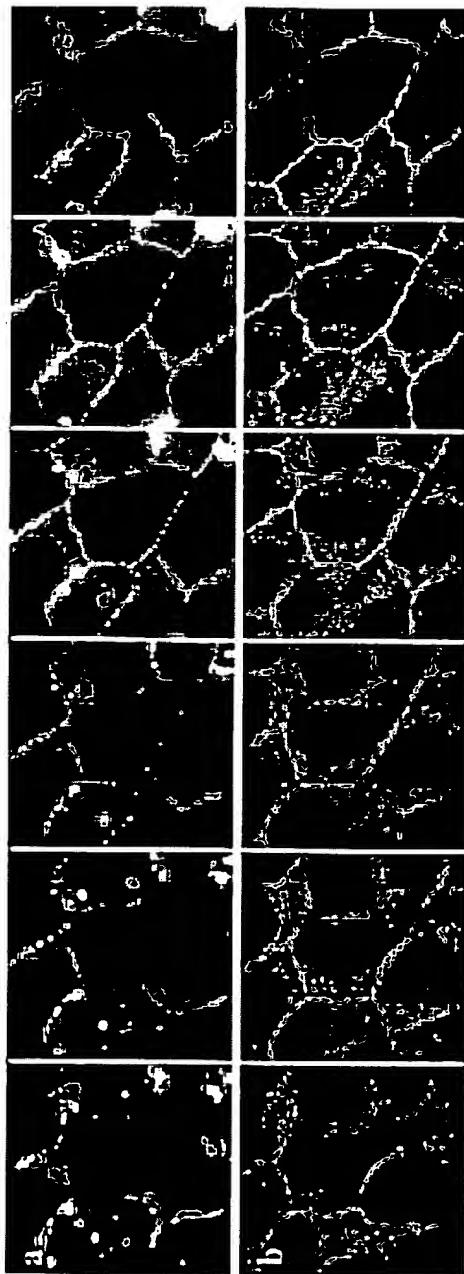


FIG. 19B

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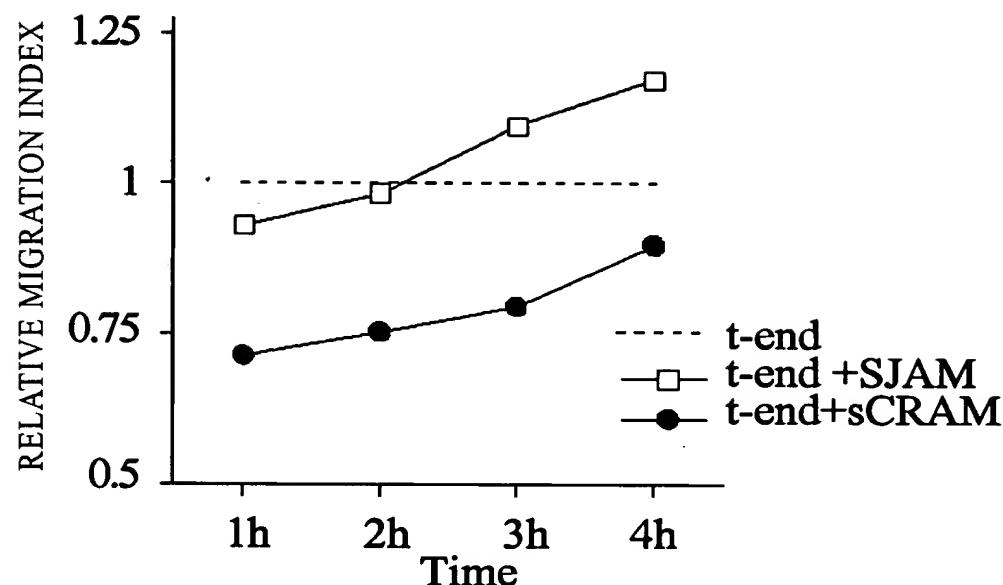
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**FIG. 20A**





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FIG. 20B

